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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.5230001/RWE/B-CAPPLICATION NO.
10/067,543APPLICANT
Byrd, et al.FILING DATE
February 7, 2002GROUP
~~1633~~ 1637

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
TS	AL1	✓ WO 97/02357	01/23/1997	WIPO	✓		Yes No
	AM1	✓ WO 97/43450	11/20/1997	WIPO	✓		Yes No
	AN1	✓ WO 98/20967	05/22/1998	WIPO	✓		Yes No
	AO1	✓ WO 99/05574	02/04/1999	WIPO	✓		Yes No
TS	AP1	✓ WO 99/05591	02/04/1999	WIPO	✓		Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TS	AR	✓ 1	Aldrian-Herrada, G., et al., "Solid-Phase Synthesis of Peptide Nucleic Acid (PNA) Monomers and Their Oligomerization Using Disulphide Anchoring Linkers," <i>J. Pept. Sci.</i> 4:266-281, John Wiley & Sons, Ltd. (1998)
	AS	✓ 1	Amit, B., et al., "Photosensitive Protecting Groups of Amino Sugars and Their Use on Glycoside Synthesis. 2-Nitrobenzyloxycarbonylamino and 6-Nitroveratryloxycarbonylamino Derivatives," <i>J. Org. Chem.</i> 39:192-196, American Chemical Society (1974)
TS	AT	✓ 1	Bussiere, D.E. and Bastia, D., "Termination of DNA replication of bacterial and plasmid chromosomes," <i>Mol. Micro.</i> 31:1611-1618, Blackwell Science, Ltd. (March 1999)

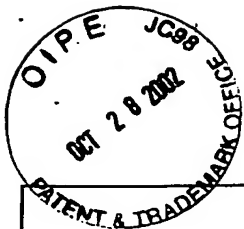
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TS	AL2 ✓	WO 99/40105	08/12/1999	WIPO			Yes No
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

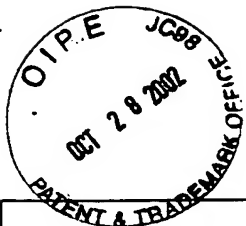
TS	AR	✓ 2	Coskun-Ari, F.F. and Hill, T.M., "Sequence-specific Interactions in the Tus-Ter Complex and the Effect of Base Pair Substitutions on Arrest of DNA Replication in <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 272:26448-26456, The American Society for Biochemistry and Molecular Biology, Inc. (1997)
	AS	✓ 2	Duggin, I.G., et al., "Site-directed Mutants of RTP of <i>Bacillus subtilis</i> and the Mechanism of Replication Fork Arrest," <i>J. Mol. Biol.</i> 286:1325-1335, Academic Press (March 1999)
TS	AT	✓ 2	Griffiths, A.A., et al., "Replication Terminator Protein-Based Replication Fork-Arrest Systems in Various <i>Bacillus</i> Species," <i>J. Bacteriol.</i> 180:3360-3367, American Society for Microbiology (1998)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TS	AR	✓ 3	Hidaka, M., et al., "Purification of a DNA Replication Terminus (ter) Site-binding Protein in <i>Escherichia coli</i> and Identification of the Structural Gene," <i>J. Biol. Chem.</i> 264:21031-21037, The American Society for Biochemistry and Molecular Biology, Inc. (1989)	✓
TS	AS	✓ 3	Hill, T.M., et al., "tus, the trans-acting gene required for termination of DNA replication in <i>Escherichia coli</i> , encodes a DNA-binding protein," <i>Proc. Natl. Acad. Sci. USA</i> 86:1593-1597, National Academy of Sciences (1989)	✓
TS	AT	✓ 3	McCray, J.A. and Trentham, D.R., "Properties and Uses of Photoreactive Caged Compounds," <i>Annu. Rev. Biophys. Biophys. Chem.</i> 18:239-270, Annual Reviews, Inc. (1989)	✓

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TS	AR	✓ 4	Patchornik, A., et al., "Photosensitive Protecting Groups," J. Amer. Chem. Soc. 92:6333-6335, American Chemical Society (1970)	✓
	AS	✓ 4	Riggs, et al., "Introduction to Expression by Fusion Protein Vectors," in: Current Protocols in Molecular Biology, Ausubel, F.M., et al., eds., John Wiley & Sons, Inc., New York, NY, pp. 16.4.1-16.4.4 (1994)	✓
TS	AT	✓ 4	Rogers, Y.-H., et al., "Immobilization of Oligonucleotides onto a Glass Support via Disulfide Bonds: A Method for Preparation of DNA Microarrays," Anal. Biochem. 266:23-30, Academic Press (January 1999)	✓

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TS	AR	✓ 5	Sharma, B. and Hill, T.M., "Insertion of inverted Ter sites into the terminus region of the <i>Escherichia coli</i> chromosome delays completion of DNA replication and disrupts the cell cycle," <i>Mol. Micro.</i> 18:45-61, Blackwell Science, Ltd. (1995)
	AS	✓ 5	Skokotas, A., et al., "Mutations in the <i>Escherichia coli</i> Tus Protein Define a Domain Positioned Close to the DNA in the Tus-Ter Complex," <i>J. Biol. Chem.</i> 270:30941-30948, The American Society for Biochemistry and Molecular Biology, Inc. (1995)
TS	AT	✓ 5	Bierne, H., et al., "Deletions at stalled replication forks occur by two different pathways," <i>EMBO J.</i> 16:3332-3340, Oxford University Press (1997)

EXAMINER Tessa Stuckelmaier

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
TS	AR	<input checked="" type="checkbox"/> 6	Franks, A.H. and Wake, R.G., "Replication Fork Arrest at Relocated Replication Terminators on the <i>Bacillus subtilis</i> Chromosome," <i>J. Bacteriol.</i> 178:4258-4265, American Society for Microbiology (1996)
	AS	<input checked="" type="checkbox"/> 6	Griffiths, A.A. and Wake, R.G., "Search for Additional Replication Terminators in the <i>Bacillus subtilis</i> 168 Chromosome," <i>J. Bacteriol.</i> 179:3358-3361, American Society for Microbiology (1997)
TS	AT	<input checked="" type="checkbox"/> 6	Henderson, T.A., et al., "Site-directed mutagenesis and phylogenetic comparisons of the <i>Escherichia coli</i> Tus protein: DNA-protein interactions alone can not account for Tus activity," <i>Mol. Genet. Genomics</i> 265:941-953, Springer-Verlag (August 2001)

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TS	AR	<input checked="" type="checkbox"/> 2	Hiasa, H. and Marians, K.J., "Tus Prevents Overreplication of <i>oriC</i> Plasmid DNA," <i>J. Biol. Chem.</i> 269:26959-26968, The American Society for Biochemistry and Molecular Biology, Inc. (1994)
	AS	<input checked="" type="checkbox"/> 2	Hill, T.M., et al., "Identification of the DNA Sequence from the E. coli Terminus Region That Halts Replication Forks," <i>Cell</i> 55:459-466, Cell Press (1988)
TS	AT	<input checked="" type="checkbox"/> 2	Hill, T.M. and Marians, K.J., "Escherichia coli Tus protein acts to arrest the progression of DNA replication forks in vitro," <i>Proc. Natl. Acad. Sci. USA</i> 87:2481-2485, National Academy of Sciences (1990)

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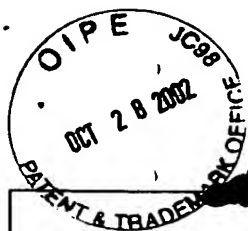
TS	AR	<input checked="" type="checkbox"/>	Kaul, S., et al., "The replication terminator protein of the Gram-positive bacterium <i>Bacillus subtilis</i> functions as a polar contrahelicase in Gram-negative <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 91:11143-11147, National Academy of Sciences (1994)
TS	AS	<input checked="" type="checkbox"/>	Neylon, C., et al., "Interaction of the <i>Escherichia coli</i> Replication Terminator Protein (Tus) with DNA: A Model Derived from DNA-Binding Studies of Mutant Proteins by Surface Plasmon Resonance," <i>Biochem.</i> 39:11989-11999, American Chemical Society (October 2000)
TS	AT	<input checked="" type="checkbox"/>	Pelletier, A.J., et al., "Termination Sites T1 and T2 from the <i>Escherichia coli</i> Chromosome Inhibit DNA Replication in ColE1-Derived Plasmids," <i>J. Bacteriol.</i> 171:1739-1741, American Society for Microbiology (1989)

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TS	AR	✓ 2	Rothstein, R., et al., "Replication fork pausing and recombination of 'gimme a break'," <i>Genes & Develop.</i> 14:1-10, Cold Spring Harbor Laboratory Press (January 2000)
TS	AS	✓ 2	Skokotas, A., et al., "Isolation and Characterization of Mutants of Tus, the Replication Arrest Protein of <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 269:20446-20455, The American Society for Biochemistry and Molecular Biology, Inc. (1994)
	AT	2	International Search Report for International Patent Application No. PCT/US02/03366, mailed July 22, 2002

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